

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number
WO 2005/071093 A2

(51) International Patent Classification⁷: **C12N 15/861**

(21) International Application Number:
PCT/EP2005/000558

(22) International Filing Date: 18 January 2005 (18.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/538,799 23 January 2004 (23.01.2004) US

(71) Applicant (for all designated States except US): **ISTITUTO DI RICERCHE DI BIOLOGIA MOLECOLARE P ANGELETTI SPA** [IT/IT]; Via Pontina KM 30.600, I-00040 Pomezia (Rome) (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CIRILLO, Agostino** [IT/IT]; IRBM, Via Pontina KM 30.600, I-00040 Pomezia (Rome) (IT). **COLLOCA, Stefano** [IT/IT]; IRBM, Via Pontina KM 30.600, I-00040 Pomezia (Rome) (IT). **ERCOLE, Bruno, Bruni** [IT/IT]; IRBM, Via Pontina

KM 30.600, I-00040 Pomezia (Rome) (IT). **MEOLA, Annalisa** [IT/IT]; IRBM, Via Pontina KM 30.600, I-00040 Pomezia (Rome) (IT). **NICOSIA, Alfredo** [IT/IT]; IRBM, Via Pontina KM 30.600, I-00040 Pomezia (Rome) (IT). **SPORENO, Elisabetta** [IT/IT]; IRBM, Via Pontina KM 30.600, I-00040 Pomezia (Rome) (IT).

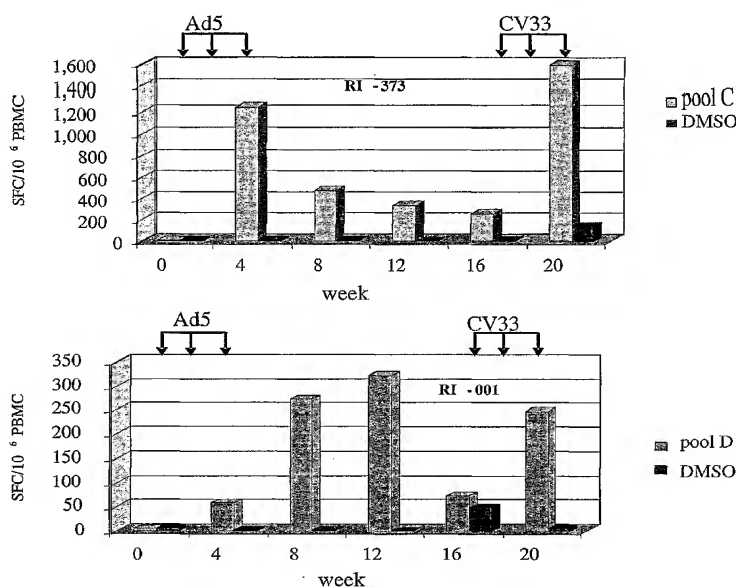
(74) Agent: **BUCHAN, Gavin, MacNicol**; Terlings Park, Eastwick Road, Harlow, Essex CM20 2QR (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: CHIMPANZEE ADENOVIRUS VACCINE CARRIERS



(57) Abstract: The present invention provides recombinant replication-defective adenoviral vectors derived from chimpanzee adenoviruses and methods for generating recombinant adenoviruses in human E1-expressing cell lines. The invention also provides compositions and methods suitable for use for the delivery and expression of transgenes encoding immunogens against which a boosted immune response is desired. The invention further provides methods of generating clinical grade vector stocks suitable for use in humans. In a particular embodiment the invention contemplates the use of vectors comprising transgenes which encode tumor associated antigens in vaccines and pharmaceutical compositions for the prevention and treatment of cancer.

WO 2005/071093 A2



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *without international search report and to be republished upon receipt of that report*